

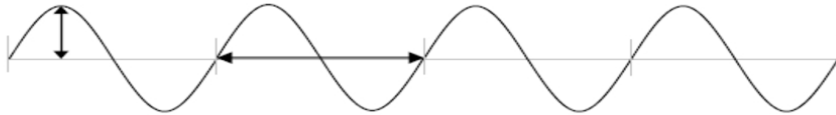
**NAME:**

**PERIOD: A B E F G**

**Wave Worksheet**

One full wave (cycle)

Wave train – two or more waves



**Amplitude** – measures the energy of a transverse wave

a) measured from the equilibrium position to the top of a crest or the bottom of a trough (see vertical arrow)

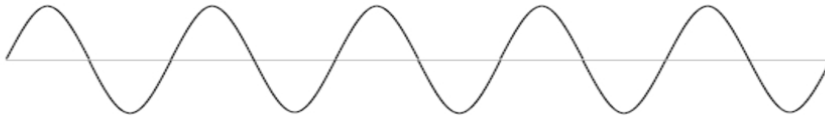
**Wavelength** – length of a single wave cycle (horizontal arrow double sided arrow)

**Frequency** - # of waves that pass a point in a given amount of time

**Speed** = wavelength x frequency

The time from the beginning to the end of the wave train in each situation is 1 second.

**Wave 1**



a) How many waves are there in this wave train? \_\_\_\_\_

b) Wavelength \_\_\_\_\_ cm    c) Amplitude \_\_\_\_\_ cm    d) frequency \_\_\_\_\_ Hz    e) speed \_\_\_\_\_ cm/s

**Wave 2**



a) How many waves are there in this wave train? \_\_\_\_\_

b) Wavelength \_\_\_\_\_ cm    c) Amplitude \_\_\_\_\_ cm    d) frequency \_\_\_\_\_ Hz    e.) speed \_\_\_\_\_ cm/s

**Wave 3**



a) How many waves are there in this wave train? \_\_\_\_\_

b) Wavelength \_\_\_\_\_ cm    c) Amplitude \_\_\_\_\_ cm    d) frequency \_\_\_\_\_ Hz    e.) speed \_\_\_\_\_ cm/s